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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	TBA 101770, 962
Filing Date	November 24, 2003
First Named Inventor	Stuart S.P. PARKIN
Art Unit	TBA
Examiner Name	TBA
Attorney Docket Number	ARC920030058US1

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
JN	1	US-5,341,188	08-23-1994	Parkin et al.	
	2	US-5,465,185	11-07-1995	Heim et al.	
	3	US-5,640,343	06-17-1997	Gallagher et al.	
	4	US-5,801,984	09-01-1998	Parkin	
	5	US-5,841,692	11-24-1998	Gallagher et al.	
	6	US-5,898,548	04-27-1999	Dill et al.	
	7	US-6,028,786	02-22-2000	Nishimura	
	8	US-6,097,625	08-01-2000	Scheuerlein	
	9	US-6,166,948	12-26-2000	Parkin et al.	
	10	US-6,341,053 B1	01-22-2002	Nakada et al.	
	11	US-6,359,289 B1	03-19-2002	Parkin	
	12	US-6,436,526 B1	08-20-2002	Odagawa et al.	
	13	US-6,445,024 B1	09-03-2002	Kwon et al.	
	14	US-6,518,588 B1	02-13-2003	Parkin et al.	
	15	US-6,519,124 B1	02-11-2003	Redon et al.	
	16	US-6,522,573 B2	02-18-2003	Saito et al.	
	17	US-6,538,861 B1	03-25-2003	Hayashi et al.	
	18	US-6,538,919 B1	03-25-2003	Abraham et al.	
	19	US-6,556,473 B2	04-29-2003	Saito et al.	

[illegible]

Examiner Signature	JOSEPH NGUYEN	Date Considered	04/19/05
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Application Number	TBA 10/720,962
Filing Date	November 24, 2003
First Named Inventor	Stuart S.P. PARKIN
Art Unit	TBA
Examiner Name	TBA
Attorney Docket Number	ARC920030058US1

Sheet 2 of 3

U. S. PATENT DOCUMENTS					
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		Number-Kind Code ² (if known)			
JN	20	US- 2001/0005011 A1	06-28-2001	Minakata et al.	
	21	US- 2001/0026471 A1	10-04-2001	Michijima et al.	
	22	US- 2002/0054462 A1	05-09-2002	Sun et al.	
	23	US- 2002/0097534 A1	07-25-2002	Sun et al.	
	24	US- 2002/0154456 A1	10-24-2002	Carey et al.	
	25	US- 2002/0159203 A1	10-31-2002	Saito et al.	
	26	US- 2003/0035249 A1	02-20-2003	Ho et al.	
	27	US- 2003/0072109 A1	04-17-2003	Sharma et al.	
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FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)			

Examiner
Signature

JOSEPH NUYEN

Date
Considered

4/19/05

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		Application Number	TBA 10/720,962		
		Filing Date	November 24, 2003		
		First Named Inventor	Stuart S.P. PARKIN		
		Art Unit	TBA 2815		
		Examiner Name	TBA JOSEPH NGUYEN		
Sheet	3	of	3	Attorney Docket Number	ARC920030058US1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JN	28	"Artificial Antiferromagnet (AAF) biased spin-valves [Key Benefits]", Shimadzu Application Note, Ref. NA99015.	
	29	S. Collis et al., "CoFe/Ir/CoFe Artificial Antiferromagnetic Sandwich as a Hard Magnetic Layer in Hard-Soft GMR Sensors," IEEE Transactions on Magnetics, Vol. 37, No. 4, pp. 1736-1738, July 2001.	
	30	M. Julliere, "Tunneling Between Ferromagnetic Films," Physics Letters, Volume 54A, Number 3, pp. 225-226, 8 September 1975.	
	31	U.K. Klostermann et al., "Influence of a magnetic seed line on the switching behaviour of submicrometre sized magnetic tunnel junctions," J. of Phys. D: Applied Phys. 34 (2001) 2117-2122.	
	32	R. Meservey et al., "Spin-polarized electron tunneling," PHYSICS REPORTS (Review Section of Physics Letters) 238, No. 4 (1994), pp. 173-243.	
	33	H.A.M van den Berg et al., "Magnetic Tunnel Sensors with Co-Cu Artificial Antiferromagnetic (AAF) Hard Subsystem," IEEE Transactions on Magnetics, Vol. 35, No. 5, pp. 2892-2894, September 1999.	
	34	C.-Y. You et al., "Enhancement of switching stability of tunneling magnetoresistance systems with artificial ferrimagnets," Journal of Applied Physics, Volume 92, Number 7, pp. 3886-3889, 1 October 2002.	
	35	S. Yuasa et al., "Spin-Polarized Resonant Tunneling In Magnetic Tunnel Junctions," Science, Vol. 297, pp. 234-237, 12-July-2002.	

Examiner Signature	JOSEPH NGUYEN	Date Considered	4/19/05
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